BRUHATH BENGALURU MAHANAGARA PALIKE

QUALITY CONTROL TEST REPORT

Client: Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.

Contractor: Smt. Mamatha(Rohan Constructions) , Contractor, Bangalore

Name of Work: 'Repairs and maintenance of Footpath in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

.

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QC ABSTRACT

Nameof Work: 'Repairs and maintenance of Footpath in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Resuts
1	1:3:6	86.86 Cum	1	1	Pass
2	Paver Block-60mm	157.61 Sqm	1	1	Pass
3	Slab - 100mm	257.40 Sqm	1	1	Pass
4	Slab - 230mm	169.20 Sqm	1	1	Pass
5	Kerbstones	269.00 Nos	1	1	Pass

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

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Job No.: CACE/BBMP/MA/W.No.05/2023-24 Date: 30.08.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer**, Yelahanka New Town Sub division, BBMP, Bangalore.
AGENCY	:	**Smt. Mamatha(Rohan Constructions)** , Contractor, Bangalore.
NAME OF THE WORK	:	'Repairs and maintenance of Footpath in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		July - 2023
DATE OF TESTING		28.08.2023 to 30.08.2023

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	345 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	31.50 %	-

Note:

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Job No.: CACE/BBMP/MA/W.No.05/2023-24 Date : 30.08.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**

Agency : **Smt. Mamatha(Rohan Constructions) , Contractor, Bangalore.**

Name of Work : 'Repairs and maintenance of Footpath in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

Date of Testing : 30.08.2023

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	72	7.20	7.20	92.8	90-100
2.36	145	14.50	21.70	78.3	75-100
1.18	157	15.70	37.40	62.6	55-90
600 Micron	160	16.00	53.40	46.6	35-59
300 Micron	243	24.30	77.70	22.3	8-30
150 Micron	160	16.00	93.70	6.3	0-10

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Job No.: CACE/BBMP/MA/W.No.05/2023-24 Date : 30.08.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**

Agency : **Smt. Mamatha(Rohan Constructions) , Contractor, Bangalore.**

Name of Work : "Repairs and maintenance of Footpath in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

Date of Testing : 30.08.2023

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	22	2.20	2.20	97.8	90-100
1.18	75	7.50	9.70	90.3	70-100
600 Micron	129	12.90	22.60	77.4	40-100
300 Micron	255	25.50	48.10	51.9	5-70
150 Micron	495	49.50	97.60	2.4	0-15

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Job No.: CACE/BBMP/MA/W.No.05/2023-24 Date : 30.08.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**

Agency : **Smt. Mamatha(Rohan Constructions) , Contractor, Bangalore.**

Name of Work : 'Repairs and maintenance of Footpath in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

Date of Testing : 30.08.2023

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	198	4.0	4.0	96.0	95-100
10	2518	50.4	54.3	45.7	25-55
4.75	1965	39.3	93.6	6.4	0-10

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Job No.: CACE/BBMP/MA/W.No.05/2023-24

Date : 30.08.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**

Agency : **Smt. Mamatha(Rohan Constructions) , Contractor, Bangalore.**

Name of Work : "Repairs and maintenance of Footpath in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

Date of Testing : 30.08.2023

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	175	1.17	1.17	98.83	95-100
20	8243	54.95	56.12	43.88	30-70
10	3152	21.01	77.13	22.87	10-35
4.75	2795	18.63	95.77	4.23	0-5

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Job No.: CACE/BBMP/MA/W.No.05/2023-24

Date: 04.09.2023

KERB STONE (CORE) TEST REPORT

Client	:	: Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.
Agency	:	: Smt. Mamatha(Rohan Constructions) , Contractor, Bangalore.
Name of Work	:	: 'Repairs and maintenance of Footpath in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	04.09.2023
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	72.00	0.339	2397.93	1.44	0.940	26.20	13.34	14.41	13.54	16.92
2	50.00	74.00	0.348	2395.07	1.48	0.944	26.50	13.50	14.58	13.76	17.20
3	50.00	76.00	0.351	2352.14	1.52	0.948	26.80	13.65	14.74	13.98	17.47

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Job No.: **CACE/BBMP/MA/W.No.05/2023-24** Date: 13.09.2023

TEST REPORT

Client	:	**Assistant Executive Engineer**, Yelahanka New Town Sub division, BBMP, Bangalore.
Agency	:	**Smt. Mamatha(Rohan Constructions)** , Contractor, Bangalore.
Name of the work	:	"Repairs and maintenance of Footpath in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	60.15	60.16
2	02	60.17	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	695.6	24,200	28.74	287.4	Minimum required Compressive Strength of Individual Units 281 Kg/m^2
2	02	698.9	24,200	28.88	288.8	

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Job No.: CACE/BBMP/MA/W.No.05/2023-24 Date: 25.09.2023

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	: Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP,
Contractor	:	: Smt. Mamatha(Rohan Constructions) , Contractor, Bangalore.
Name of Work	:	: 'Repairs and maintenance of Footpath in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	25.09.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{25}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.375	2387.32	1.60	0.957	39.50	20.12	21.73	20.79	25.98
2	50.00	81.00	0.382	2401.86	1.62	0.959	39.80	20.27	21.89	20.99	26.24
3	50.00	82.00	0.399	2478.16	1.64	0.961	40.20	20.47	22.11	21.25	26.56

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Job No.: CACE/BBMP/MA/W.No.05/2023-24

Date: 25.09.2023

PRECAST SLAB 230mm Thick(CORE) TEST REPORT

Client	:	: Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP,
Contractor	:	: Smt. Mamatha(Rohan Constructions) , Contractor, Bangalore.
Name of Work	:	: 'Repairs and maintenance of Footpath in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	25.09.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{25}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	110.00	1.751	2502.18	1.22	0.916	133.20	20.94	22.61	20.71	25.89
2	90.00	111.00	1.753	2482.47	1.23	0.917	133.80	21.03	22.71	20.83	26.04
3	90.00	112.00	1.759	2468.73	1.24	0.918	134.10	21.08	22.77	20.91	26.13

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